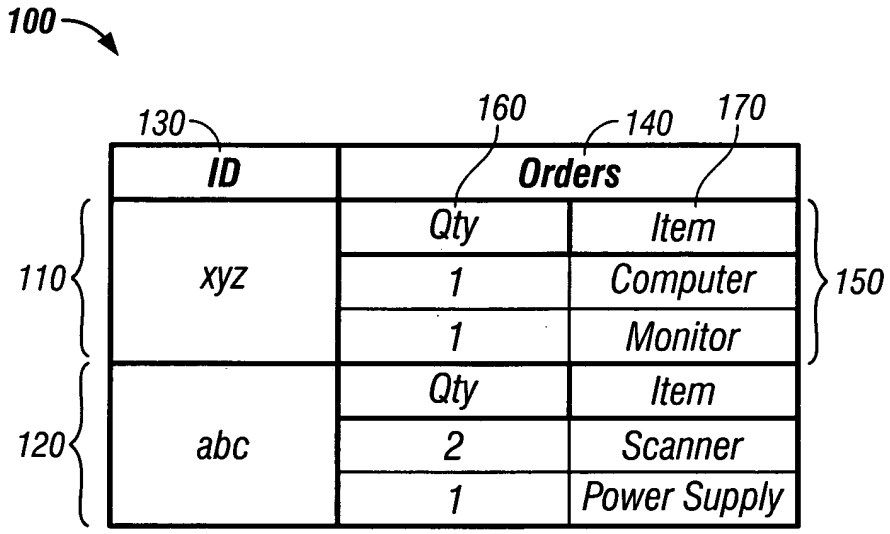

FIG. 1

```
CUSTOMERS:[
    {ID="xyz"
    ORDERS=[
        { = 1
        ITEM="computer"}
        {POS=2
        ITEM="monitor"}]
    }
    {ID="abc"
    ORDERS=[
        {POS=1
        ITEM="scanner"}
        {POS=2
        ITEM="power supply}]
    }]
```

210

220

FIG. 2

```
CUSTOMERS:{
    ID["xyz", "abc"] }310
    ORDERS:{
        QTY:[[1,2],[1,2]]
        ITEM:[["computer", "monitor"],["scanner", "power supply"]]}
}
```

320

FIG. 3

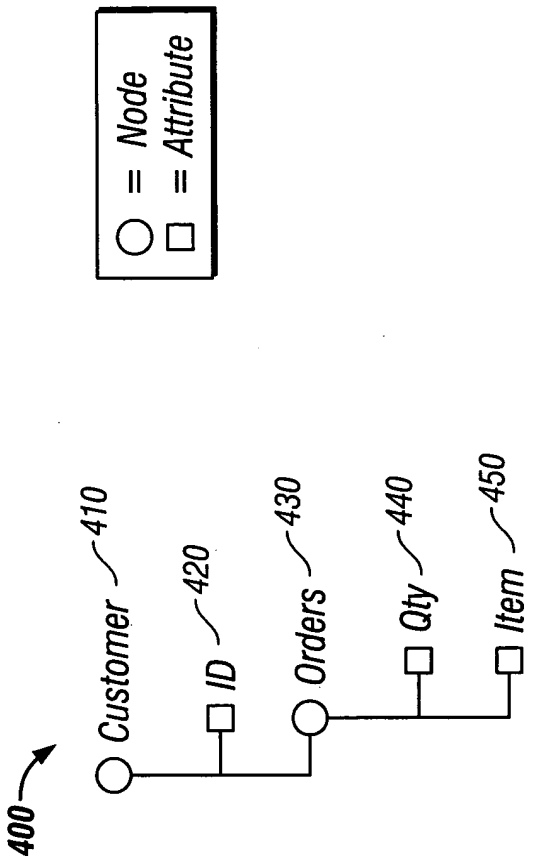

FIG. 4

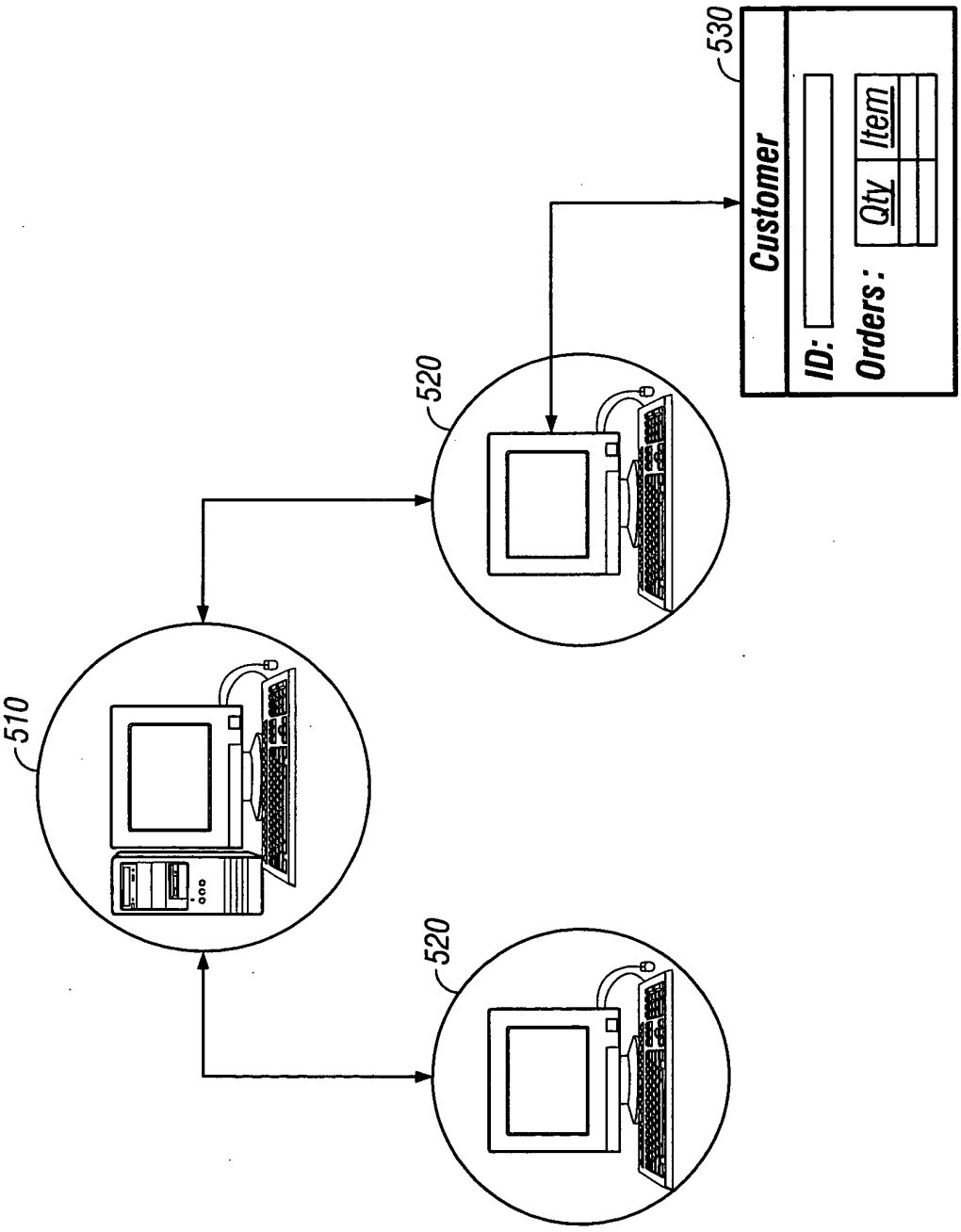

FIG. 5

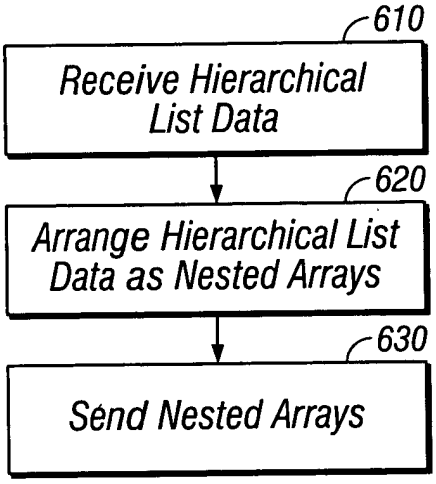
610
Receive Hierarchical List Data
620
Arrange Hierarchical List Data as Nested Arrays
630
Send Nested Arrays

FIG. 6

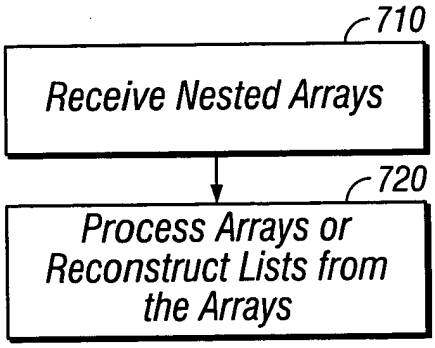
710
Receive Nested Arrays
720
Process Arrays or Reconstruct Lists from the Arrays

FIG. 7